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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/831,690	06/05/2002	Monica J. Carson	NEU-00115.P1	9615	
DAVID R PRESTON & ASSOCIATES APC EXAMINER					
5850 OBERLIN		CHERNYSHEV, OLGA N			
SUITE 300 SAN DIEGO, CA 92121			ART UNIT	PAPER NUMBER	
,			1649		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
31 DAYS 02/0		02/09/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)	Applicant(s)			
Office A.A. a. Comment		09/831,690	CARSON ET AL.				
(Office Action Summary	Examiner	Art Unit				
		Olga N. Chernyshev	1649				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)□ Re:	sponsive to communication(s) filed on						
·		—· is action is non-final.					
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
	nim(s) <u>1-91</u> is/are pending in the applicatio	n					
-	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are withdrawn norm consideration.						
·	im(s) is/are rejected.		•				
· <u> </u>	nim(s) <u>30. 37-40</u> is/are objected to.						
	nim(s) <u>1-29,31-36 and 41-91</u> are subject to	restriction and/or election r	requirement.				
Application	•						
_	·						
<u> </u>	specification is objected to by the Examin						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority unde	er 35 U.S.C. § 119						
· · · · · · · · · · · · · · · · · · ·	nowledgment is made of a claim for foreig	n priority under 35 U.S.C. §	3 119(a)-(d) or (f).				
a)	_ ′— ′—						
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:							
Paper No(s)/Mail Date 6) L. Other:							

DETAILED ACTION

Claim Objections

1. Claims 30 and 37-40 are objected to under 37 CFR 1.75(c) as being in improper form because any dependent claim, which refers to more than one other claim ("multiple dependent claim") shall refer to such other claims in the alternative only. See MPEP § 608.01(n).

Accordingly, the claims 30 and 37-40 are not been further treated on the merits.

Claims 1-29, 31-36 and 41-91 are under consideration in the instant office action.

Election/Restrictions

2. Claims 1, 43, 46, 49, 52, 55, 58 and 64 are objected to as reciting an improper Markush Group. MPEP 803.02 states that

"Since the decisions in In re Weber, 580 F.2d 455, 198 USPQ 328 (CCPA 1978) and In re Haas, 580 F.2d 461, 198 USPQ 334 (CCPA 1978), it is improper for the Office to refuse to examine that which applicants regard as their invention, unless the subject matter in a claim lacks unity of invention. In re Harnish, 631 F.2d 716, 206 USPQ 300 (CCPA 1980); and Ex parte Hozumi, 3 USPQ2d 1059 (Bd. Pat. App. & Int. 1984). Broadly, unity of invention exists where compounds included within a Markush group (1) share a common utility, and (2) share a substantial structural feature disclosed as being essential to that utility."

Applicant is advised that claims 1, 43, 46, 49, 52, 55, 58 and 64 are each improper Markush claims because the plurality of amino acid and nucleic acid sequences recited in these claims lack a common utility which is based upon a shared structural feature lacking from the prior art. Each of these proteins and nucleic acids are independent and distinct chemical compounds lacking either a common structural property which distinguishes them as a group from structurally related compounds of the prior art or which provides them with a common

utility which is lacking from those prior art proteins or nucleic acids. Therefore, restriction to one of the following inventions is required under 35 U.S.C. 121 and 372.

3. This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- 4. Group I to XXV, claim(s) 1-29, 31-36 and 41-91, in so far as they are drawn to **any one** of the twenty-five isolated polynucleotide sequences recited therein as well as encoding proteins and methods of using these molecules. For example, Invention I consists of claims 1-29, 31-36 and 41-91 only in so far as they encompass an isolated polynucleotide of SEQ ID NO: 1. Invention XXV consists of claims 1-29, 31-36 and 41-91 only in so far as they encompass an isolated polynucleotide of SEQ ID NO: 25.
- 5. The inventions listed as Groups I to XXV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Pursuant to 37 C.F.R. § 1.475 (a), Unity of invention before the International Searching Authority, an international and a national stage application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept ("requirement of unity of invention"). Where a group of inventions is claimed in an application, the requirement of unity of invention shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a

contribution which each of the claimed inventions, considered as a whole, makes over the prior art. As such, pursuant to 37 C.F.R. § 1.475 (b), the ISA/US considers that when an international or a national stage application containing claims to different categories of invention unity of invention exists if the claims are drawn only to one of the following combinations of categories:

- (1) A product and a process specially adapted for the manufacture of said product; or
- (2) A product and process of use of said product; or
- (3) A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or
- (4) A process and an apparatus or means specifically designed for carrying out the said process;
- (5) A product, a process specially adapted for the manufacture of the said product, and an apparatus or means specifically designed for carrying out the said process.

Further, the determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim.

As such, the twenty-five isolated polynucleotides, encoding proteins, antibodies that bind to these proteins and methods of use of these distinct molecular embodiments are at least twentyfive different chemical compositions and each represent a patentably distinct invention. Lack of unity is shown by the fact that these twenty-five different compositions lack a common utility based upon a shared structural feature lacking from the prior art.

- 6. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Olga N. Chernyshev whose telephone number is (571) 272-0870. The examiner can normally be reached on 8:00 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet L. Andres can be reached on (571) 272-0867. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Olga N. Chernyshev, Ph.D.

Primary Examiner Art Unit 1649

January 31, 2007